

FIG. 1

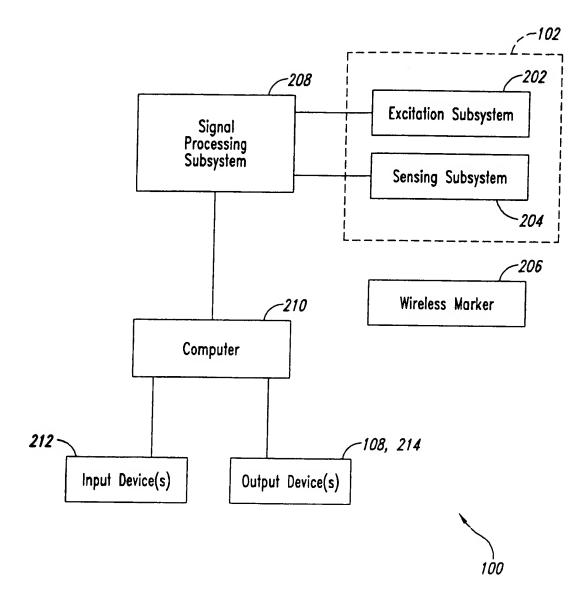
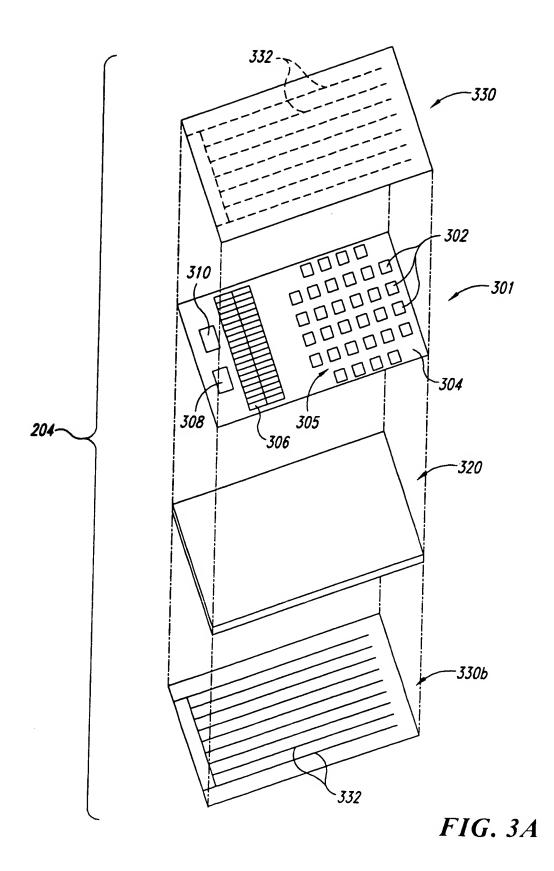


FIG. 2



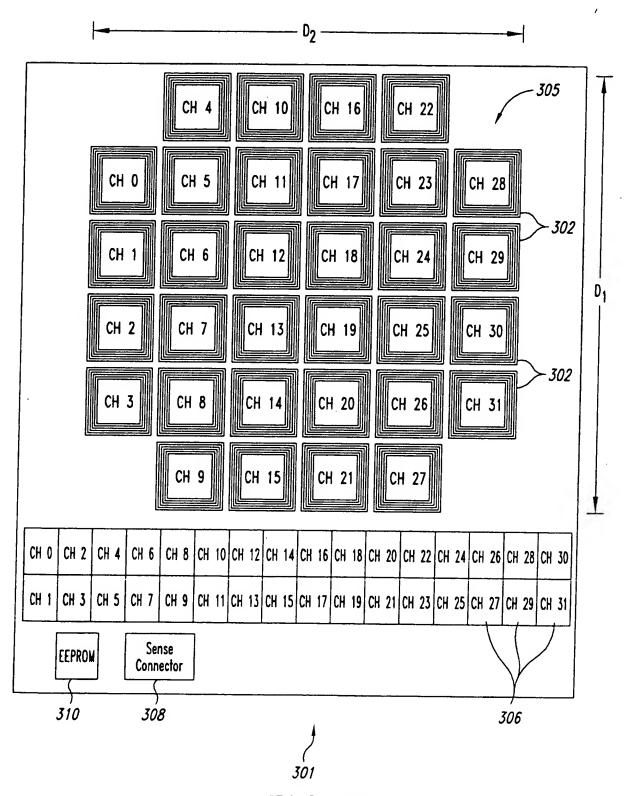
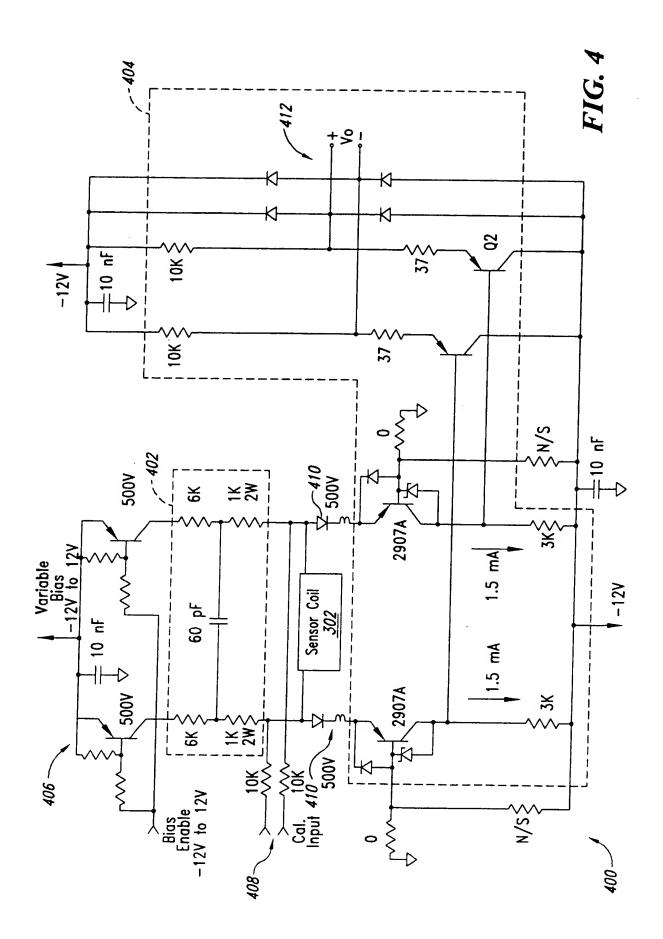


FIG. 3B



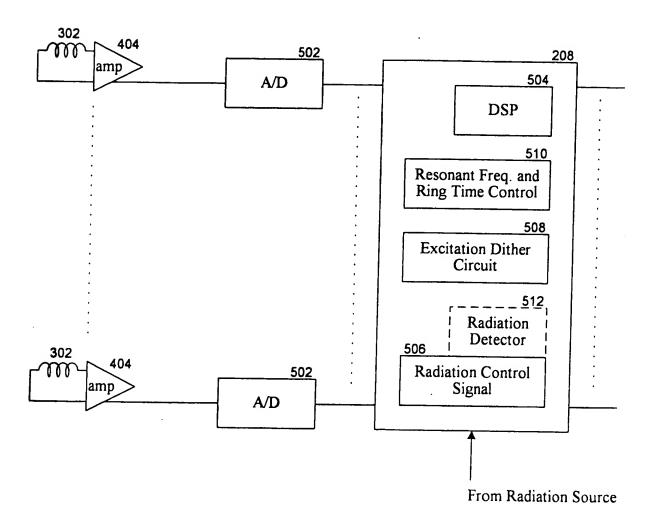
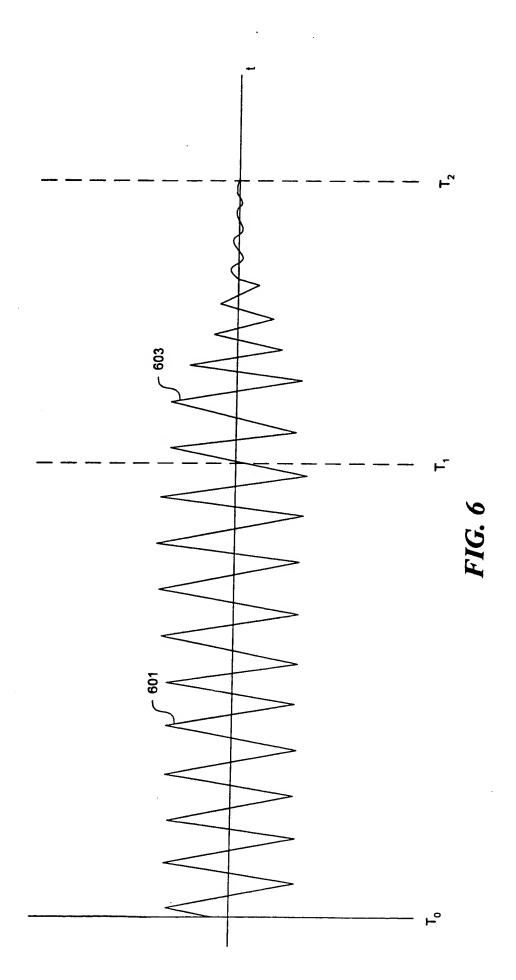


FIG. 5



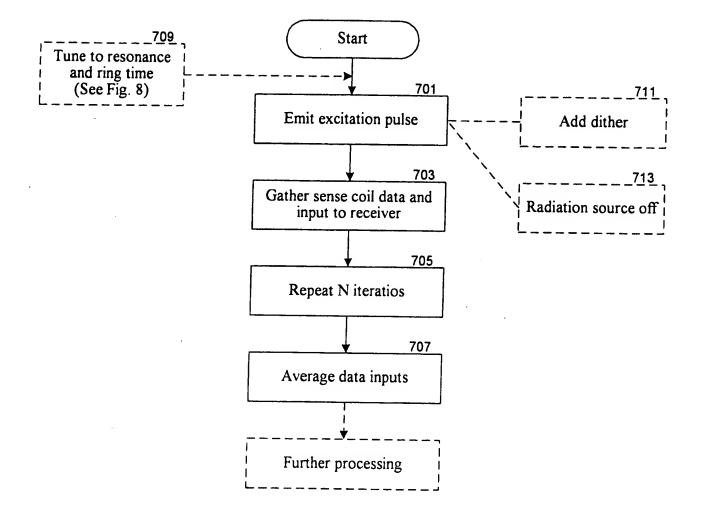


FIG. 7

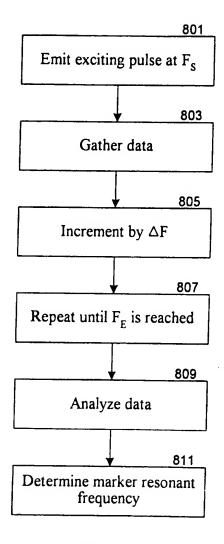


FIG. 8

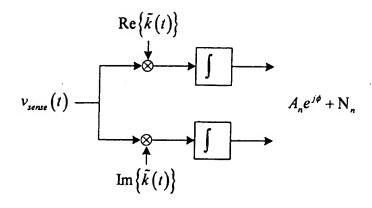


FIG. 9

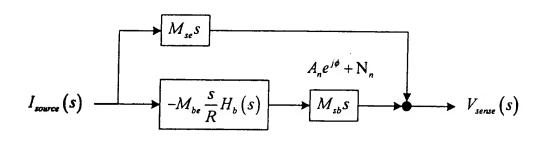


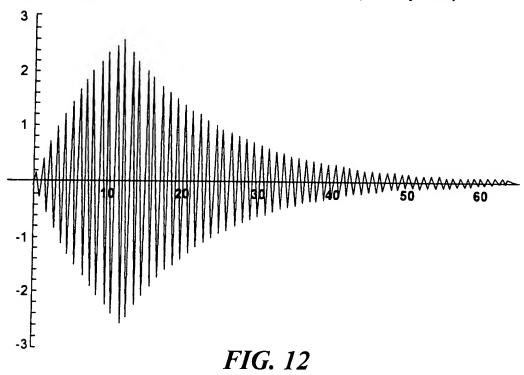
FIG. 10

$$i_{source}(t)$$

$$-\frac{M_{be}M_{sb}}{R}\frac{d^2}{dt^2}$$
 $v_{sense}(t)$

FIG. 11

Sensed Voltage: 100 kHz Beacon, 100 kHz Excitation (arbitrary scale)



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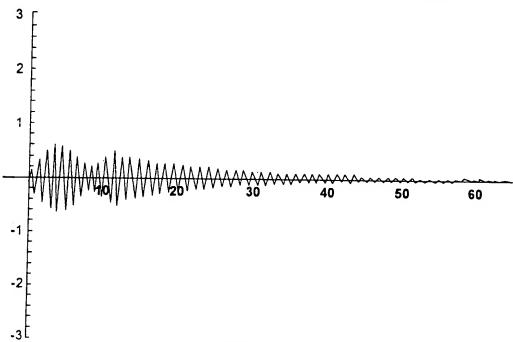
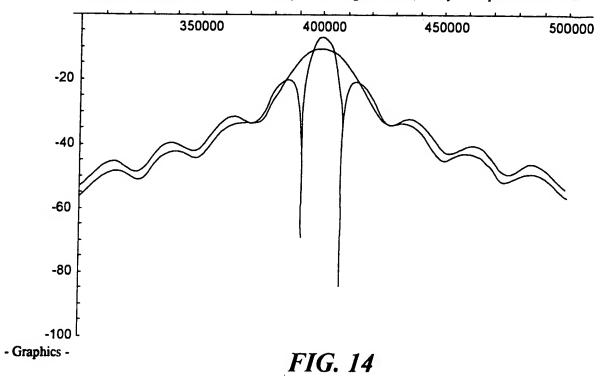


FIG. 13





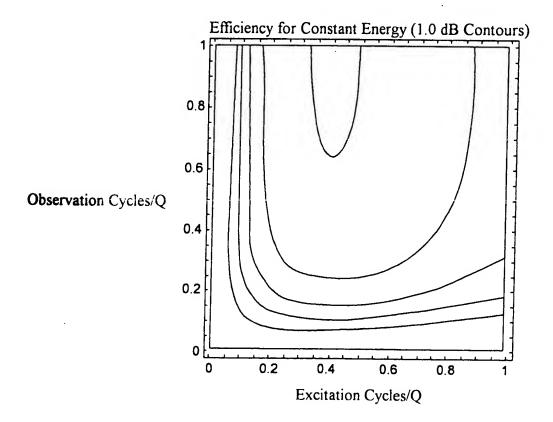
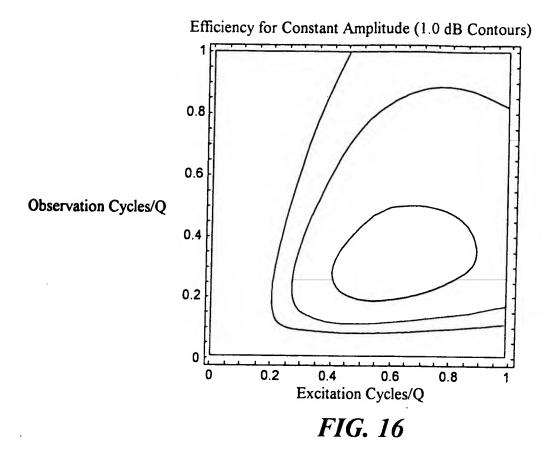
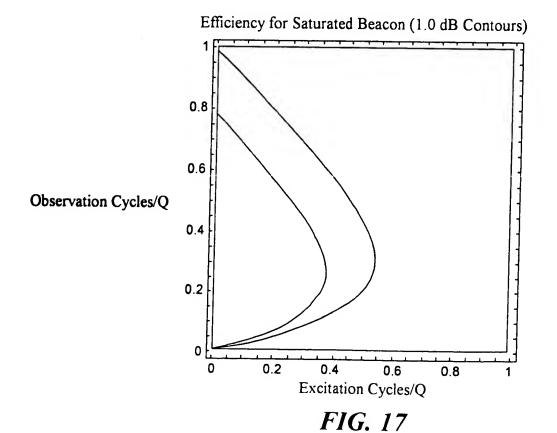


FIG. 15





Relative Sensitivity (dB): Q = 40, 16 Cycle Rectangular Pulse, 32 Cycle Exponential Kernel

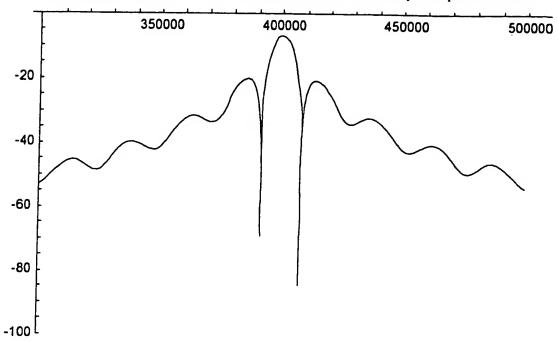


FIG. 18

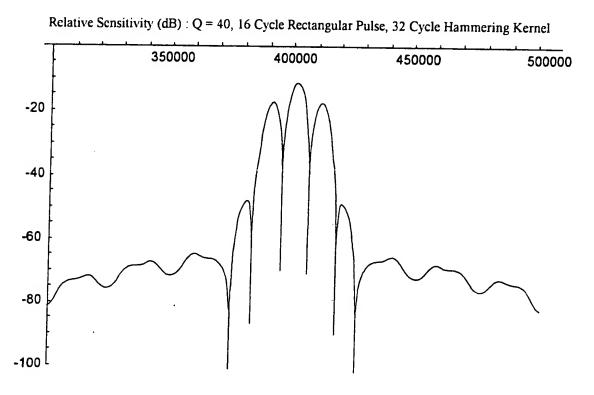


FIG. 19

Relative Sensitivity (dB): Q = 40, 16 Cycle Rectangular Pulse, 32 Cycle Blackman Kernel

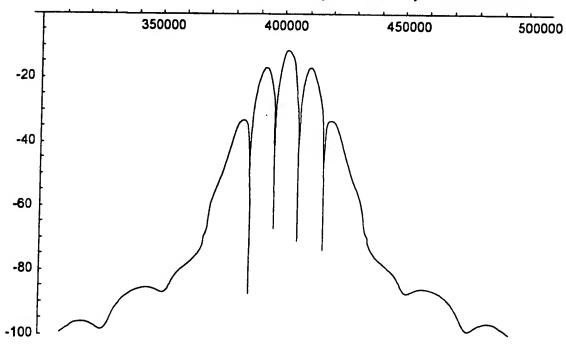


FIG. 20